



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				<i>Complete if Known</i>	
				Application Number	10/720,253-Conf. #4097
				Filing Date	November 25, 2003
				First Named Inventor	Hideki Sato
				Art Unit	Not Yet Assigned 2862
				Examiner Name	Not Yet Assigned AURORA
Sheet	1	of	1	Attorney Docket Number	P9219.0006

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear <i>See</i>
		Number-Kind Code ² (if known)			
RS	AA	US-5,561,368	10-01-1996	Dovek et al.	—
RS	AB	US-6,252,395 B1	06-26-2001	Aoyama et al.	—

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear <i>T</i> ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
RS	BA	-JP 8-2226960	09-03-1996	—	—
RS	BB	-EP 0 707 218 A2	04-17-1996	—	—
RS	BC	-JP 8-2111138	08-20-1996	—	—
RS	BD	-JP 63-193866	12-14-1988	—	—
RS	BE	-JP 11-287668	10-19-1999	—	—
RS	BF	-JP 59-159565	09-10-1984	—	—
RS	BG	-JP 2001-183433	07-06-2001	—	—
RS	BH	-JP 6-77558	03-18-1994	Kawanishi	—
RS	BI	-JP 3-221810 (w/English abstract)	09-30-1991	OKamoto	—
RS	BJ	JP 6-232478	08/19/1994	—	—
RS	BK	US 2003-0094944 A1	05/22/2003	Suzuki et al.	—

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			<i>T</i> ²
RS	CA	Copy of PCT Application PCT/JP02/12476 dated November 29, 2002			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Reena Dovee

1/4/05



PTO/SB/08a/b (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/720,253
Sheet	1	of	1	Filing Date	November 25, 2003
				First Named Inventor	Hideki Sato
				Art Unit	To Be Assigned 2862
				Examiner Name	To Be Assigned AURORA
				Attorney Docket Number	P9219.0006

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AB	BA	DE 196 49 265 A1	06/04/1998	= =	=
AB	BB	DE 197 42 366 C1	05/27/1999	= =	=

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
AB	CA	Hill et al., Sensors and Actuators A, Vol. 59, pgs. 30-37 (1997)			
AB	CB	Ron Neale, "Taming the Giant MagnetoResistance (GMR) effect", Sensors, Electronic Engineering, pgs. 36-40 (1996)			
AB	CC	Smith et al., "The Growing Role of Solid-State Magnetic Sensing", Sensors Expo-Detroit, pgs. 139-149 (1997)			
AB	CD	Spong et al., "Giant MagnetoResistive Spin Valve Bridge Sensor", IEEE Transactions on Magnetics, Vol. 32, No. 2, pgs. 366-371 (1996)			
AB	CE	Daughton et al., "Magnetic Field Sensors Using GMR Multilayer", IEEE Transactions on Magnetics, Vol. 30, No. 6, pgs. 4608-4610 (1994)			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	<i>Kleen Aurora</i>	Date Considered	1/4/05
--------------------	---------------------	-----------------	--------